

*Right for today,
ready for tomorrow*

IBM Personal System/2 Model 80 386



IBM

The Bigger Picture

IBM Personal System/2® Model 80 386 at a glance

Microprocessor	80386, 16 MHz, 1 wait state (Models 80-041 and -071) or 20 MHz, 0-2 wait states (Models 80-111 and -311) Optional: IBM 80387 Math Co-Processor (16 MHz on Models 80-041 and -071, 20 MHz on Models 80-111 and -311)
Permanent memory (ROM)	128KB standard
Memory (RAM)¹	1MB (Model 80-041) or 2MB (Models 80-071, -111 and -311) of 80-nanosecond memory standard, expandable to 16MB with memory expansion options
Integrated functions	Video Graphics Array (VGA) and display port, serial port, parallel port, pointing device port, keyboard port, diskette controller, clock/calendar
System expansion	Seven available expansion slots (three 32-bit, four 16-bit)
Operating systems	DOS 3.30, IBM Operating System/2, [™] AIX [™] Personal System/2
Storage	Model 80-041: one 1.44MB 3.5-inch diskette drive and a 44MB fixed disk standard; additional 44MB fixed disk optional Model 80-071: one 1.44MB 3.5-inch diskette drive and a 70MB fixed disk standard; additional 70MB, 115MB or 314MB fixed disk optional Model 80-111: one 1.44MB 3.5-inch diskette drive and a 115MB fixed disk standard; additional 70MB, 115MB or 314MB fixed disk optional Model 80-311: one 1.44MB 3.5-inch diskette drive and a 314MB fixed disk standard; additional 70MB, 115MB or 314MB fixed disk optional Also optional: either a second 1.44MB diskette drive or IBM 5.25" External Diskette Drive, IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive
Text/graphics support	VGA supports CGA, EGA and MCGA modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)
Display modes	All CGA and EGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 9-foot coiled cable
Supported displays	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Display 8503
Supported printers	IBM Proprinter [™] family, IBM Quietwriter [®] printers, IBM Wheelprinters, IBM Pageprinter, IBM Color Jetprinter
Communications support	IBM Token-Ring Network Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, IBM System 36/38 Workstation Emulation Adapter, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, IBM 300/1200 Internal Modem/A, IBM Realtime Interface Co-Processor Multiport/2
Power supply	225-watt worldwide autosensing and autoswitching
Size	Approx. 23.5" H x 6.5" W x 19" D (597mm x 166mm x 482mm); 52 lbs. (23 kg)

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[™] Operating System/2, AIX, Proprinter and Micro Channel are trademarks of International Business Machines Corporation.

¹ 128KB of this memory is reserved for hardware system use.

² 8½ x 11-inch, double-spaced typewritten pages.

IBM Personal System/2 Model 80 386 features

Intel 80386 microprocessor	Processes data at a clock speed of 16 MHz (Models 80-041 and 071) or 20 MHz (Models 80-111 and -311)	Capability to handle the most intensive computing applications and process large amounts of data in small amounts of time
128KB of permanent memory	Includes security features and Advanced BIOS functions	Data and program security; support for concurrent operations
1MB or 2MB of memory (RAM), expandable to 16MB with memory expansion options	Access rate of 80 nanoseconds; provides electronic workspace for lengthy programs and files, and/or multiple applications	Rapid data processing; support for advanced applications, including multitasking/multiuser applications and network services
Micro Channel[™] architecture	Delivers rapid processing and throughput	Fast, efficient, balanced system performance; foundation for future growth
Integrated functions and streamlined design	Pack more capabilities into fewer components using Surface Mount Technology (SMT) and Very Large-Scale Integration (VLSI)	Easy setup, operation and expansion; better price/performance; enhanced reliability
Internal fixed disk drives	Provide 44MB, 70MB, 115MB or 314MB of storage for up to 22,000, 35,000, 56,000 or 155,000 pages ² of information, respectively; 40ms, 30ms, 28ms or 23ms average access (based on model); user-selectable cache software disk memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications, large data bases, and network services; enhanced throughput via reduced storage and retrieval time on fixed disks
1.44MB 3.5-inch diskette drive	Stores up to 720 pages ² of information on a double-sided diskette; second diskette drive optional	High-density storage; low-profile drive
3.5-inch diskettes	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
Built-in VGA capabilities	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome)	High-quality, high-detail graphics and text; improved on-screen readability
IBM PS/2 Enhanced Keyboard	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
Network and host emulation capabilities	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
5.25-inch external diskette drive option	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360KB diskettes
Fixed disk drive options	Provide an additional 44MB, 70MB, 115MB or 314MB of storage (based on model)	Easy expansion of fixed disk storage capability
200MB optical disk drive option	Writes once, reads many times; holds up to 100,000 pages ² of information on one cartridge	Large permanent storage; fixed disk backup; software archiving
Tape drive option	Saves/restores data for using systems	Fast, convenient save/restore and data exchange between systems
IBM support and service	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service



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